

Name: _____

Date: _____

PCW__09__22 Coordinate transformations v14

Question 1

Consider the two functions f and g , where g is defined as a transformation of f :

$$g[x] = 8 \cdot f[3(x + 6)] - 2$$

For point (a, b) on curve f there is a corresponding point on the curve g . Write the coordinate transformation.

Question 2

Consider the two functions f and g , where g is defined as a transformation of f :

$$g[x] = 4 \cdot f\left[\frac{x}{7} - 5\right] + 6$$

For point (a, b) on curve f there is a corresponding point on the curve g . Write the coordinate transformation.

Question 3

Consider the two functions f and g , where g is defined as a transformation of f :

$$g[x] = 2 \cdot (f[3(x - 5)] + 8)$$

For point (a, b) on curve f there is a corresponding point on the curve g . Write the coordinate transformation.

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Question 4

Consider the two functions f and g , where g is defined as a transformation of f :

$$g[x] = \frac{f[5x - 8]}{7} + 9$$

For point (a, b) on curve f there is a corresponding point on the curve g . Write the coordinate transformation.

Question 5

Consider the two functions f and g , where g is defined as a transformation of f :

$$g[x] = 3 \cdot \left(f\left[\frac{x}{9} + 6\right] - 8 \right)$$

For point (a, b) on curve f there is a corresponding point on the curve g . Write the coordinate transformation.

Question 6

Consider the two functions f and g , where g is defined as a transformation of f :

$$g[x] = \frac{f[9x + 8] + 6}{5}$$

For point (a, b) on curve f there is a corresponding point on the curve g . Write the coordinate transformation.